

Title (en)

Method for controlling movement of head in data storage device and disk drive employing the method

Title (de)

Verfahren zur Steuerung der Bewegung des Kopfes in einem Datenaufzeichnungsgerät und Plattenspieler mit Verwendung des Verfahrens

Title (fr)

Méthode de commande de translation de tête dans un dispositif d'emmagasinement de données et tourne-disque utilisant la méthode

Publication

EP 1564727 A3 20061213 (EN)

Application

EP 05003424 A 20050217

Priority

KR 20040010453 A 20040217

Abstract (en)

[origin: EP1564727A2] A method for controlling a disk drive includes: detecting an amount of an impact applied to the disk drive, and determining whether the detected amount exceeds a critical value; reading position information of a cylinder, over which a head is positioned, when the detected amount exceeds the critical value, and suspending a command being implemented; determining whether the read cylinder number exceeds a reference cylinder number; and moving the head in an innermost peripheral direction of the disk when the read cylinder number exceeds the reference cylinder number, and moving the head in an outermost peripheral direction of the disk when the read cylinder number does not exceed the reference cylinder number.

IPC 8 full level

G11B 5/54 (2006.01); **G11B 21/02** (2006.01); **G11B 21/12** (2006.01)

CPC (source: EP KR US)

G11B 5/54 (2013.01 - EP US); **G11B 19/042** (2013.01 - EP US); **G11B 21/02** (2013.01 - KR); **G11B 21/12** (2013.01 - EP US)

Citation (search report)

- [A] US 2003067705 A1 20030410 - ISHIYAMA KIYOSHI [JP], et al
- [A] WO 9610249 A1 19960404 - MAXTOR CORP [US]
- [A] JP H03252962 A 19911112 - NEC CORP

Cited by

US7733595B2; WO2007081798A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1564727 A2 20050817; **EP 1564727 A3 20061213**; **EP 1564727 B1 20081224**; DE 602005011878 D1 20090205;
JP 2005235382 A 20050902; JP 4317527 B2 20090819; KR 100594252 B1 20060630; KR 20050082088 A 20050822;
US 2005201002 A1 20050915; US 7088544 B2 20060808

DOCDB simple family (application)

EP 05003424 A 20050217; DE 602005011878 T 20050217; JP 2005040564 A 20050217; KR 20040010453 A 20040217;
US 5960205 A 20050217